

FIG. 1A

GGATTGAACA AGGACGCATT TCCCCAGTAC ATCCACAAC ATG CTG TCC ACA TCT			54
Met Leu Ser Thr Ser			
1		5	
CGT TCT CGG TTT ATC AGA AAT ACC AAC GAG AGC GGT GAA GAA GTC ACC			102
Arg Ser Arg Phe Ile Arg Asn Thr Asn Glu Ser Gly Glu Glu Val Thr			
10		15	20
ACC TTT TTT GAT TAT GAT TAC GGT GCT CCC TGT CAT AAA TTT GAC GTG			150
Thr Phe Phe Asp Tyr Asp Tyr Gly Ala Pro Cys His Lys Phe Asp Val			
25		30	35
AAG CAA ATT GGG GCC CAA CTC CTG CCT CCG CTC TAC TCG CTG GTG TTC			198
Lys Gln Ile Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser Leu Val Phe			
40		45	50
ATC TTT GGT TTT GTG GGC AAC ATG CTG GTC GTC CTC ATC TTA ATA AAC			246
Ile Phe Gly Phe Val Gly Asn Met Leu Val Val Leu Ile Leu Ile Asn			
55		60	65
TGC AAA AAG CTG AAG TGC TTG ACT GAC ATT TAC CTG CTC AAC CTG GCC			294
Cys Lys Lys Leu Lys Cys Leu Thr Asp Ile Tyr Leu Leu Asn Leu Ala			
70		75	85
ATC TCT GAT CTG CTT TTT CTT ATT ACT CTC CCA TTG TGG GCT CAC TCT			342
Ile Ser Asp Leu Leu Phe Leu Ile Thr Leu Pro Leu Trp Ala His Ser			
90		95	100
GCT GCA AAT GAG TGG GTC TTT GGG AAT GCA ATG TGC AAA TTA TTC ACA			390
Ala Ala Asn Glu Trp Val Phe Gly Asn Ala Met Cys Lys Leu Phe Thr			
105		110	115
GGG CTG TAT CAC ATC GGT TAT TTT GGC GGA ATC TTC TTC ATC ATC CTC			438
Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile Phe Phe Ile Ile Leu			
120		125	130
CTG ACA ATC GAT AGA TAC CTG GCT ATT GTC CAT GCT GTG TTT GCT TTA			486
Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe Ala Leu			
135		140	145

FIG. 1B

AAA GCC AGG ACG GTC ACC TTT GGG GTG GTG ACA AGT GTG ATC ACC ACC TGG			534
Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr Ser Val Ile Thr Trp			
150	155	160	165
TTG GTG GCT GTG TTT GCT TCT GTC CCA GGA ATC ATC TTT ACT AAA TGC			582
Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile Ile Phe Thr Lys Cys			
170	175	180	
CAG AAA GAA GAT TCT TAT GTC TGT GGC CCT TAT TTT CCA CGA GGA			630
Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro Tyr Phe Pro Arg Gly			
185	190	195	
TGG AAT AAT TTC CAC ACA ATA ATG AGG AAC ATT TTG GGG CTG GTC CTG			678
Trp Asn Asn Phe His Thr Ile Met Arg Asn Ile Leu Gly Leu Val Leu			
200	205	210	
CCG CTG CTC ATC ATG GTC ATC TGC TAC TCG GGA ATC CTG AAA ACC CTG			726
Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly Ile Leu Lys Thr Leu			
215	220	225	
CTT CGG TGT CGA AAC GAG AAG AAG AGG CAT AGG GCA GTG AGA GTC ATC			774
Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg Ala Val Arg Val Ile			
230	235	240	245
TTC ACC ATC ATG ATT GTT TAC TTT CTC TTC TGG ACT CCC TAT AAC ATT			822
Phe Thr Ile Met Ile Val Tyr Phe Leu Phe Trp Thr Pro Tyr Asn Ile			
250	255	260	
GTC ATT CTC CTG AAC ACC TTC CAG GAA TTC TTC GGC CTG AGT AAC TGT			870
Val Ile Leu Leu Asn Thr Phe Gln Glu Phe Phe Gly Leu Ser Asn Cys			
265	270	275	
GAA AGC ACC AGT CAA CTG GAC CAA GCC ACG CAG GTG ACA GAG ACT CTT			918
Glu Ser Thr Ser Gln Leu Asp Gln Ala Thr Gln Val Thr Glu Thr Leu			
280	285	290	
GGG ATG ACT CAC TGC TGC ATC AAT CCC ATC ATC TAT GCC TTC GTT GGG			966
Gly Met Thr His Cys Cys Ile Asn Pro Ile Ile Tyr Ala Phe Val Gly			
295	300	305	

FIG. 1C

GAG AAG TTC AGA AGC CTT TTT CAC ATA GCT CTT GGC TGT AGG ATT GCC	1014
Glu Lys Phe Arg Ser Leu Phe His Ile Ala Leu Gly Cys Arg Ile Ala	
310 315 320 325	
CCA CTC CAA AAA CCA GTG TGT GGA GGT CCA GGA GTG AGA CCA GGA AAG	1062
Pro Leu Gln Lys Pro Val Cys Gly Gly Pro Gly Val Arg Pro Gly Lys	
330 335 340	
AAT GTG AAA GTG ACT ACA CAA GGA CTC CTC GAT GGT CGT GGA AAA GGA	1110
Asn Val Lys Val Thr Thr Gln Gly Leu Leu Asp Gly Arg Gly Lys Gly	
345 350 355	
AAG TCA ATT GGC AGA GCC CCT GAA GCC AGT CTT CAG GAC AAA GAA GGA	1158
Lys Ser Ile Gly Arg Ala Pro Glu Ala Ser Leu Gln Asp Lys Glu Gly	
360 365 370	
GCC TAGAGACAGA AATGACAGAT CTCTGCTTG GAAATCACAC GTCTGGCTTC	1121
Ala	
ACAGATGTGT GATTACAGT GTGAATCTTG GTGTCTACGT TACCAAGGAG GAAGGGCTGAG	1271
AGGAGAGAGA CTCCAGCTGG GTTGGAAAAC AGTATTTCC AAACCTACCTT CCAGTTCCCTC	1331
ATTTTGAAAT ACAGGCATAG AGTCAGACT TTTTTAAAT AGTAAAAATA AAATTAAGC	1391
TGAAAACCTGC AACTTGAAA TGTGGTAAAG AGTTAGTTG AGTTGCTATC ATGTCAAACG	1451
TGAAAATGCT GTATTAGTCA CAGAGATAAT TCTAGCTTG AGCTTAAGAA TTTTGAGCAG	1511
GTGGTATGTT TGGGAGACTG CTGAGTCAAC CCAATAGTTG TTGATTGGCA GGAGTTGGAA	1571
TGTTGTGATC TGTGGGCACA TTAGCCTATG TGCATGCAGC ATCTAAGTAA TGATGTCGTT	1631
TGAATCACAG TATACGCTCC ATCGCTGTCA TCTCAGCTGG ATCTCCATTG TCTCAGGCTT	1691
GCTGCCAAAA GCCTTTGTG TTTTGTGTTG TATCATTATG AAGTCATGCG TTTAATCACA	1751
TTCGAGTGTT TCAGTGCTTC GCAGATGTCC TTGATGCTCA TATTGTTCCC TAATTGCCA	1811
GTGGGAACTC CTAAATCAAAT TTGGCTTCTA ATCAAAGCTT TTAAACCCTA TTGGTAAAGA	1871

FIG. 1D

ATGGAAGGTG GAGAAGCTCC CTGAAGTAAG CAAAGACTTT CCTCTTAGTC GAGCCAAGTT	1931
AAGAACATGTTT TTATGTTGCC CAGTGTGTTT CTGATCTGAT GCAAGCAAGA AACACTGGGC	1991
TTCTAGAACCC AGGCAACTTG GGAACTAGAC TCCCAAGCTG GACTATGGCT CTACTTCAG	2051
GCCACATGGC TAAAGAAGGT TTCAGAAAGA AGTGGGGACA GAGCAGAACT TTCACCTTCA	2111
TATATTTGTA TGATCCTAAT GAATGCATAA AATGTTAAGT TGATGGTGAT GAAATGTAAA	2171
TACTGTTTTT AACAACTATG ATTTGGAAAA TAAATCAATG CTATAACTAT GTTGATAAAA	2231
G	2232

FIG. 2A

CAGGACTGCC	TGAGACAAGC	CACAAGCTGA	ACAGAGAAAG	TGGATTGAAC	AAGGACGCAT	60
TTCCCCAGTA	CATCCACAAC	ATG CTG TCC	ACA TCT CGT	TCT CGG TTT	ATC	110
		Met Leu Ser Thr	Ser Arg Ser	Arg Phe Ile		
1		5		10		
AGA AAT ACC AAC	GAG AGC GGT	GAA GAA GTC	ACC ACC TTT	TTT GAT TAT		158
Arg Asn Thr Asn	Glu Ser Gly	Glu Glu Val	Thr Thr Phe	Phe Asp Tyr		
15		20		25		
GAT TAC GGT GCT CCC	TGT CAT AAA TTT GAC	GTG AAG CAA ATT	GGG GCC			206
Asp Tyr Gly Ala Pro	Cys His Lys Phe	Asp Val Lys Gln	Ile Gly Ala			
30		35		40		
CAA CTC CTG CCT CCG	CTC TAC TCG CTG	GTG TTC ATC	TTT GGT TTT GTG			254
Gln Leu Leu Pro Pro	Leu Tyr Ser Leu	Val Phe Ile	Phe Gly Phe Val			
45		50		55		
GGC AAC ATG CTG GTC	CTC ATC TTA ATA AAC	TGC AAA AAG CTG	AAG			302
Gly Asn Met Leu Val	Val Leu Ile Leu	Ile Asn Cys Lys	Lys Leu Lys			
60		65		70		
TGC TTG ACT GAC ATT	TAC CTG CTC AAC	CTG GCC ATC	TCT GAT CTG	CTT		350
Cys Leu Thr Asp Ile	Tyr Leu Leu Asn	Leu Ala Ile	Ser Asp Leu	Leu		
75		80		85		90
TTT CTT ATT ACT CTC	CCA TTG TGG GCT	CAC TCT GCT	GCA AAT GAG	TGG		398
Phe Leu Ile Thr Leu	Pro Leu Trp Ala	His Ser Ala	Ala Asn Glu	Trp		
95		100		105		
GTC TTT GGG AAT GCA	ATG TGC AAA TTA	TTC ACA GGG	CTG TAT CAC	ATC		446
Val Phe Gly Asn	Ala Met Cys Lys	Leu Phe Thr	Gly Leu Tyr	His Ile		
110		115		120		
GGT TAT TTT GGC GGA	ATC TTC ATC ATC	CTC CTG ACA	ATC GAT AGA			494
Gly Tyr Phe Gly	Gly Ile Phe Phe	Ile Ile Leu	Leu Thr Ile	Asp Arg		
125		130		135		
TAC CTG GCT ATT GTC	CAT GCT GTG TTT	GCT TTA AAA	GCC AGG ACG	GTC		542
Tyr Leu Ala Ile	Val His Ala Val	Phe Ala Leu	Lys Ala Arg	Thr Val		
140		145		150		

FIG. 2B

ACC TTT GGG GTG GTG ACA AGT GTG ATC ACC TGG TTG GTG GCT GTG TTT			590
Thr Phe Gly Val Val Thr Ser Val Ile Thr Trp Leu Val Ala Val Phe			
155	160	165	170
GCT TCT GTC CCA GGA ATC ATC TTT ACT AAA TGC CAG AAA GAA GAT TCT			638
Ala Ser Val Pro Gly Ile Ile Phe Thr Lys Cys Glu Lys Glu Asp Ser			
175	180	185	
GTT TAT GTC TGT GGC CCT TAT TTT CCA CGA GGA TGG AAT AAT TTC CAC			686
Val Tyr Val Cys Gly Pro Tyr Phe Pro Arg Gly Trp Asn Asn Phe His			
190	195	200	
ACA ATA ATG AGG AAC ATT TTG GGG CTG GTC CTG CCG CTG CTC ATC ATG			734
Thr Ile Met Arg Asn Ile Leu Gly Leu Val Leu Pro Leu Leu Ile Met			
205	210	215	
GTC ATC TGC TAC TCG GGA ATC CTG AAA ACC CTG CTT CGG TGT CGA AAC			782
Val Ile Cys Tyr Ser Gly Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn			
220	225	230	
GAG AAG AAG AGG CAT AGG GCA GTG AGA GTC ATC TTC ACC ATC ATG ATT			830
Glu Lys Lys Arg His Arg Ala Val Arg Val Ile Phe Thr Ile Met Ile			
235	240	245	250
GTT TAC TTT CTC TTC TGG ACT CCC TAT AAC ATT GTC ATT CTC CTG AAC			878
Val Tyr Phe Leu Phe Trp Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn			
255	260	265	
ACC TTC CAG GAA TTC TTC GGC CTG AGT AAC TGT GAA AGC ACC AGT CAA			926
Thr Phe Gln Glu Phe Phe Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln			
270	275	280	
CTG GAC CAA GCC ACG CAG GTG ACA GAG ACT CTT GGG ATG ACT CAC TGC			974
Leu Asp Gln Ala Thr Gln Val Thr Glu Thr Leu Gly Met Thr His Cys			
285	290	295	
TGC ATC AAT CCC ATC ATC TAT GCC TTC GTT GGG GAG AAG TTC AGA AGG			1022
Cys Ile Asn Pro Ile Ile Tyr Ala Phe Val Gly Glu Lys Phe Arg Arg			
300	305	310	

FIG. 2C

TAT CTC TCG GTG TTC CGA AAG CAC ATC ACC AAG CGC TTC TGC AAA	1070
Tyr Leu Ser Val Phe Phe Arg Lys His Ile Thr Lys Arg Phe Cys Lys	
315 320 325 330	
CAA TGT CCA GTT TTC TAC AGG GAG ACA GTG GAT GGA GTG ACT TCA ACA	1118
Gln Cys Pro Val Phe Tyr Arg Glu Thr Val Asp Gly Val Thr Ser Thr	
335 340 345	
AAC ACG CCT TCC ACT GGG GAG CAG GAA GTC TCG GCT GGT TTA	1160
Asn Thr Pro Ser Thr Gly Glu Gln Glu Val Ser Ala Gly Leu	
350 355 360	
TAAAACGAGG AGCAGTTGA TTGTTGTTA TAAAGGGAGA TAACAATCTG TATATAACAA	1220
CAAACCTCAA GGGTTGTTG AACAAATAGAA ACCTGTAAAG CAGGTGCCA GGAACCTCAG	1280
GGCTGTGTGT ACTAATACAG ACTATGTCAC CCAATGCATA TCCAACATGT GCTCAGGGAA	1340
TAATCCAGAA AAACGTGGG TAGAGACTTT GACTCTCCAG AAAGCTCATC TCAGCTCCTG	1400
AAAAATGCCT CATTACCTTG TGCTAATCCT CTTTTCTAG TCTTCATAAT TTCTTCACTC	1460
AATCTCTGAT TCTGTCAATG TCTGAAATC AAGGGCCAGC TGGAGGTGAA GAAGAGAATG	1520
TGACAGGCAC AGATGAATGG GAGTGAGGGA TAGTGGGTC AGGGCTGAGA GGAGAAGGAG	1580
GGAGACATGA GCATGGCTGA GCCTGGACAA AGACAAAGGT GAGCAAAGGG CTCACGCATT	1640
CAGCCAGGAG ATGATACTGG TCCTTAGCCC CATCTGCCAC GTGTATTAA CCTTGAAGGG	1700
TTCACCAGGT CAGGGAGAGT TTGGGAAC TG CAATAACCTG GGAGTTTGG TGGAGTCCGA	1760
TGATTCTCTT TTGCATAAGT GCATGACATA TTTTGCTTT ATTACAGTTT ATCTATGGCA	1820
CCCATGCACC TTACATTGA AATCTATGAA ATATCATGCT CCATTGTTCA GATGCTTCTT	1880
AGGCCACATC CCCCTGTCTA AAAATTCAAGA AAATTTTGT TTATAAAAGA TGCATTATCT	1940
ATGATATGCT AATATATGTA TATGCAATAT AAAATTAG	1979

FIG. 3(A)

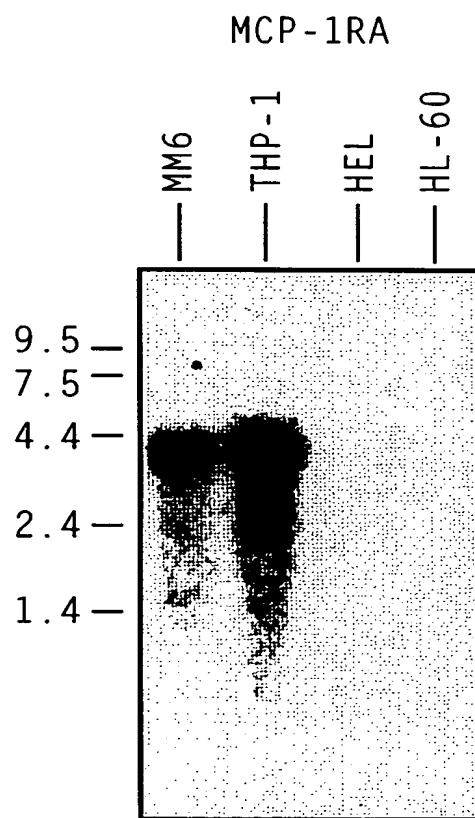


FIG. 3(B)

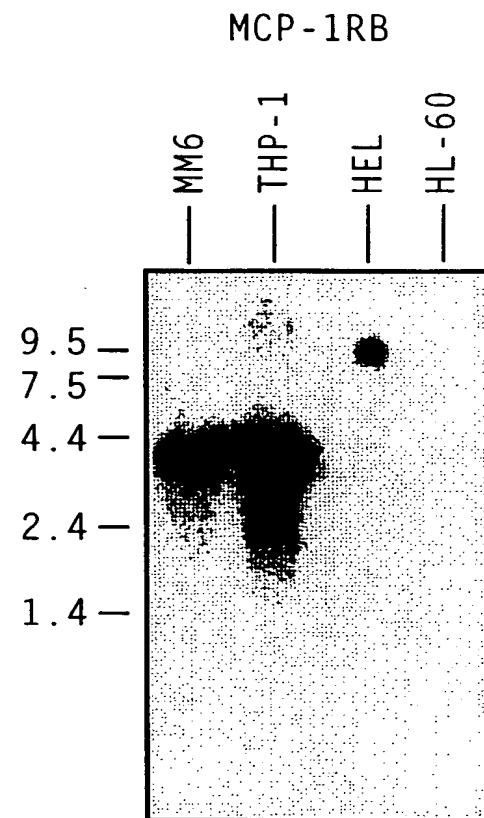


FIG.4(A)

MCP-1RA (CCR2-A)	MLSTSRSRFIRNTNESGEEVTTIFFDYDYG--APCHKFDVKQIGAQLLPPL	48
MIP-1 α /RANTESR	M-----ETPNNTEDYDITTEFDYDYGATPCQKVNERAFGAQLLPPL	40
HUMTSR	MEGIS---IYTSDNYTEEMGS-GDYDSMK-EPCFREENANFNKIFLPTI	44
IL-8RA	MSNITDPQ-MWDFDDLNFTGMPPADEY---SPC-MLETETLNKYVVI	45
IL-8RB	MESDSFEDFWKGEDLSNSYSSTLPPFLDAAPC-EPESLEINKYFVII	49
	48 1 69 79 2	
MCP-1RA (CCR2-A)	YSLVFI[FGVGNM LVVL I INCKKLKCLTDIYLLNLAISSLFLITLPLW	98
MIP-1 α /RANTESR	YSLVFVIGLVGNIL VVVL VQYKRLKNMTSIYLLNLAISSLFLITLPLFW	90
HUMTSR	YS I FLTGIVGNGLVIL VMGYQKKLRSMTDKYRHL SVADELLFVITLPLFW	94
IL-8RA	YALVFLSLLGNSL VMLVILYSRVGRSVTDVYLLNLALADLLFALTLPPIW	95
IL-8RB	YALVFLSLLGNSL VMLVILYSRVGRSVTDVYLLNLALADLLFALTLPPIW	99
	101 115 3 136	
MCP-1RA (CCR2-A)	AH-SAA NEWVFGNAMCKL FTGLYHIGYFGGIFFIILLTIDRYLAIVHAVF	147
MIP-1 α /RANTESR	IDYKLKDDWVFGDAMCKI LSGFYYTGLYSEIFFIILLTIDRYLAIVHAVF	140
HUMTSR	AV-DAVANWYFGNFLCKAVHV YTVNLYSSVLILAFISLDRYLAIVHATN	143
IL-8RA	AA-SKVNGWIFGTFLCKVVS LKEVNFYSGILLACISVDRYLAIVHATR	144
IL-8RB	AA-SKVNGWIFGTFLCKVVS LKEVNFYSGILLACISVDRYLAIVHATR	148
	154 4 178	
MCP-1RA (CCR2-A)	ALKARTVTFGV VTSV ITWL VAVFASVPGI IFTK COKEDSVYVCGPYFP--	195
MIP-1 α /RANTESR	ALRARTVTFGV ITSII IWA A ILASMPGLYFSKTQWEFTHTCSLHFPE	190
HUMTSR	SQRPRKLLAEKVYYVGWIPALLTIPDFI FANVSEADDRY CDRFYPN-	192
IL-8RA	TLTQKR-HLVKFVCLGCWGLSMNLSLPFFLFRQAYHPNNSSPVCYEVLG	193
IL-8RB	TLTQKRYLVKFI-CLSIWGLSLLLALPVLLFRRTVYSSNVSPACYEDMGN	197
	204 5 231	
MCP-1RA (CCR2-A)	--RGWNNNFHTIMRN ILGLVLP LIMVICYSGILKTLRCRNEKKRHRAVR	243
MIP-1 α /RANTESR	SLREWKLFQALKLN LFGLVLP LVMICYTGIIK TLLRRPNEKKS-KAVR	239
HUMTSR	--DLWVVVFQFHIMVGL LPGIVILFCYCIIISKL SHSKGHQKR-KALK	239
IL-8RA	DTAKWRMVLRL LPHTFGFIVPLFVMLFCYGFTLRTL FKAHMGQK-HRAMR	242
IL-8RB	NTANWRMLLR LPOSFGFIVPLL MLFCYGFTLRTL FKAHMGQ-KHRAMR	246
	244 6 268	
MCP-1RA (CCR2-A)	VIFT IMIVYFLWTPYN IVILLNTFOEF-FGLSNCESTSOLDOATQVTET	292
MIP-1 α /RANTESR	LIFVIMII FFLWTPYN LTILISVFQDF-LFTHECEQSRHLDLAVQVTEV	288
HUMTSR	TTVILILAFFACWL PYYIGISIDSFILEI IKQGCEFENTVHKWISITEA	289
IL-8RA	VIFAVVLIFLLCWL PYNLVILLADTL MRTQVIQETCERRNNIGRALDATEI	292
IL-8RB	VIFAVVLIFLLCWL PYNLVILLADTL MRTQVIQETCERRNHIDRALDATEI	296

FIG. 4(B)

	295	7	313	
MCP-1RA (CCR2-A)	LGMTHCCINPIIYAFVGEKFRSLFHALGCRIA	*	PLQKPVCGGPGVRPGKN	342
MIP-1 α /RANTESR	IAYTHCCCVNPVIYAFVGERFRKYLRQLFHRRVA		-VHLVKW	327
HUMSTSR	LAFFHCCLNPIIYAFLGAKFKTSAQHALTS		-VSRGSS	325
IL-8RA	LGFLHSCLNPIIYAFIGQNFRHGFLKILA		-MHGLVS	327
IL-8RB	LGILHSCLNPLIYAFIGQKFRHGLLKILAIH		-GLIS	331
MCP-1RA (CCR2-A)	VKVTTQGLLDGGRKGKSIGRAPEASLQDKEGA			374
MIP-1 α /RANTESR	LPFLSVDRILE-RVSSTS-PSTGEHEL--SAGF			355
HUMSTSR	LKILSKGK---RGGHSSVSTESESSS--FHSS			352
IL-8RA	KEFLARH---RVTSYT-SSSVNVS---SNL			350
IL-8RB	KDSLPKDS---RPSFVG-SSSGHTS---TTL			355

11/14

FIG. 5

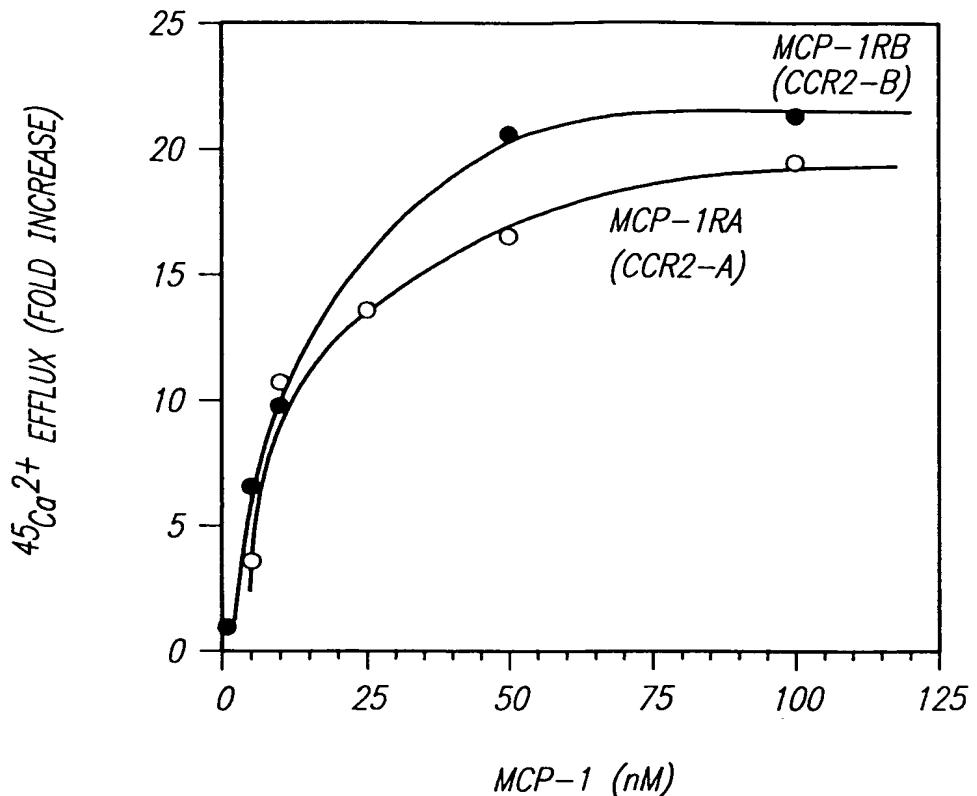
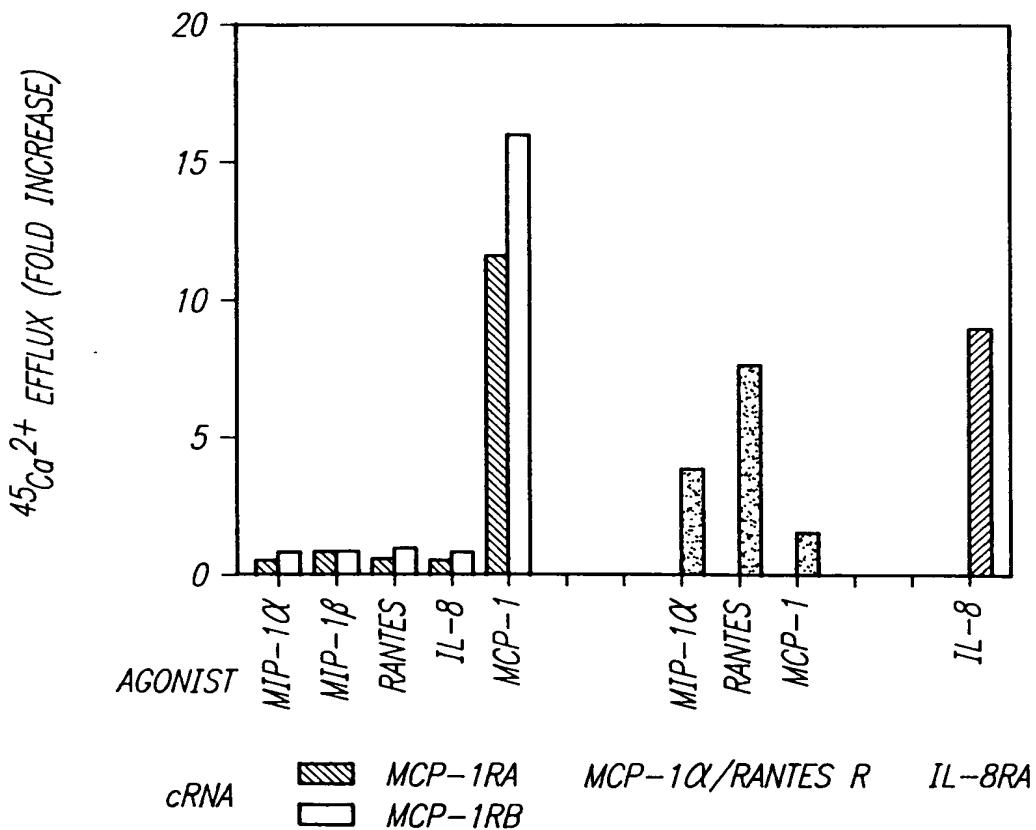
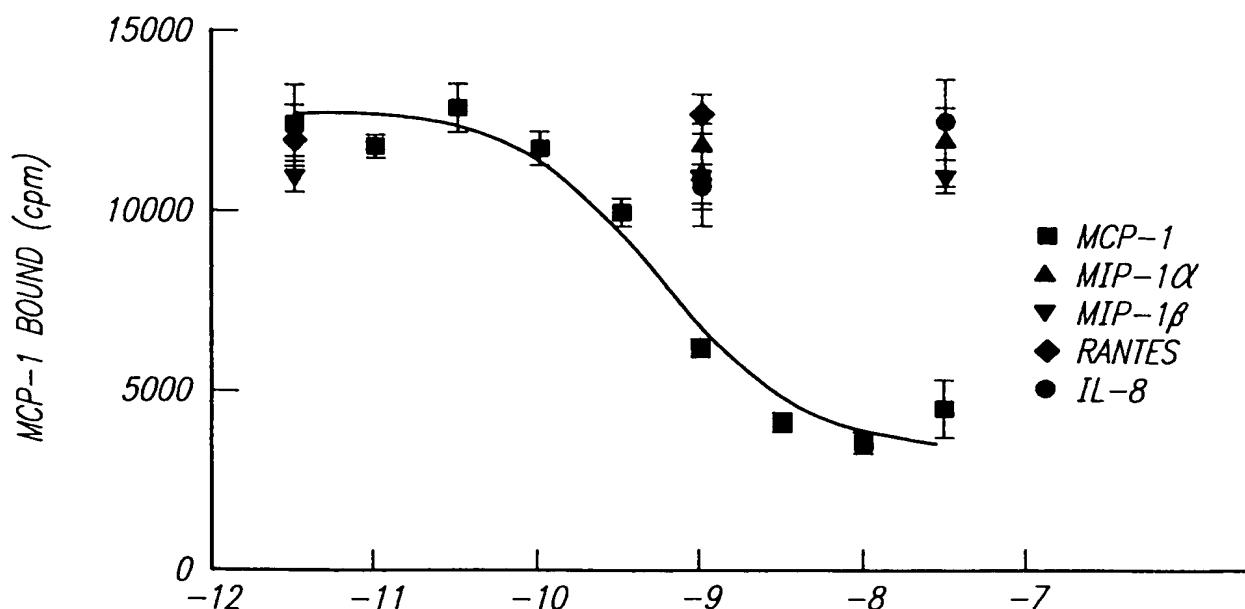


FIG. 6



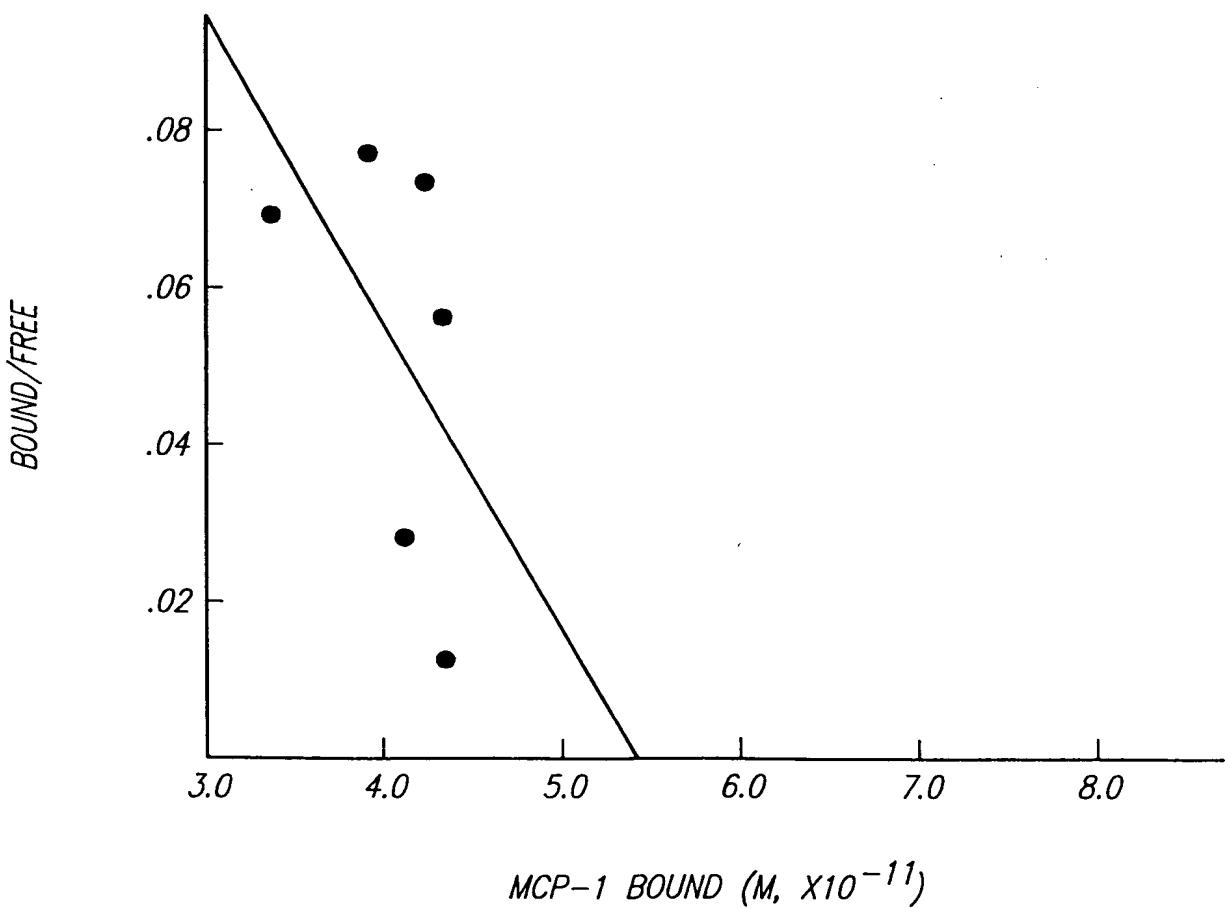
12/14

FIG. 7A



$\log [\text{CHEMOKINE}] (M)$

FIG. 7B



13/14

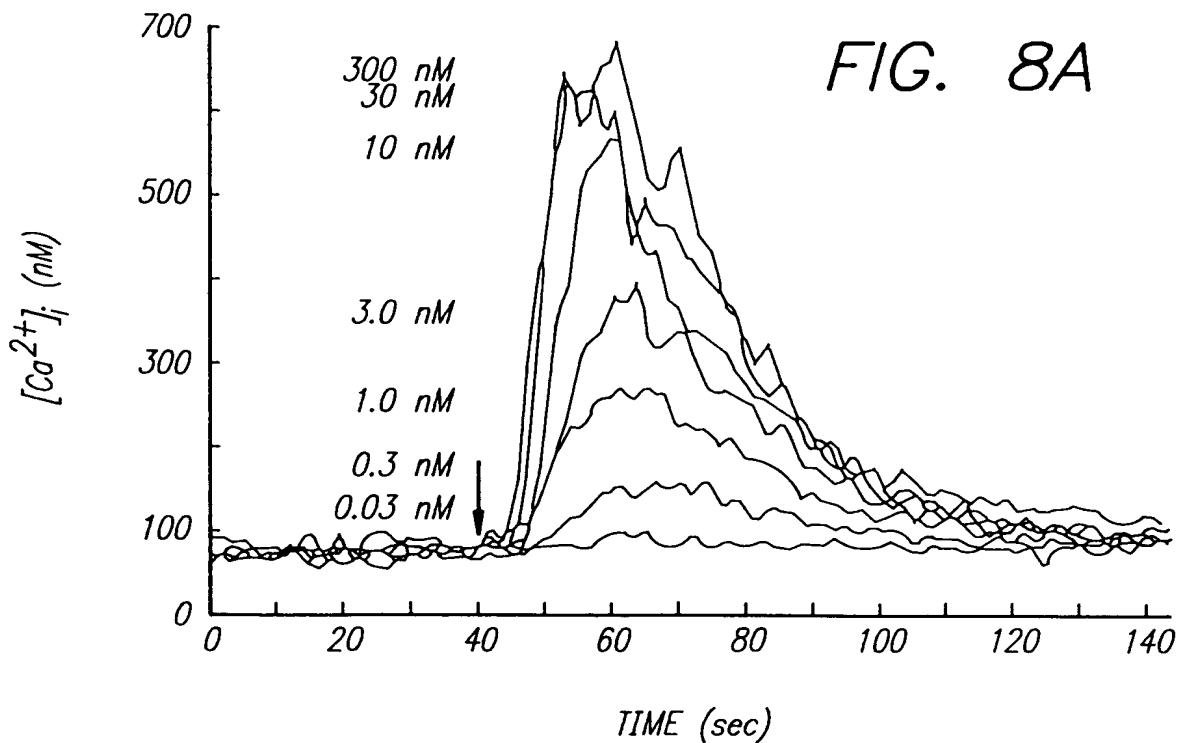


FIG. 8B

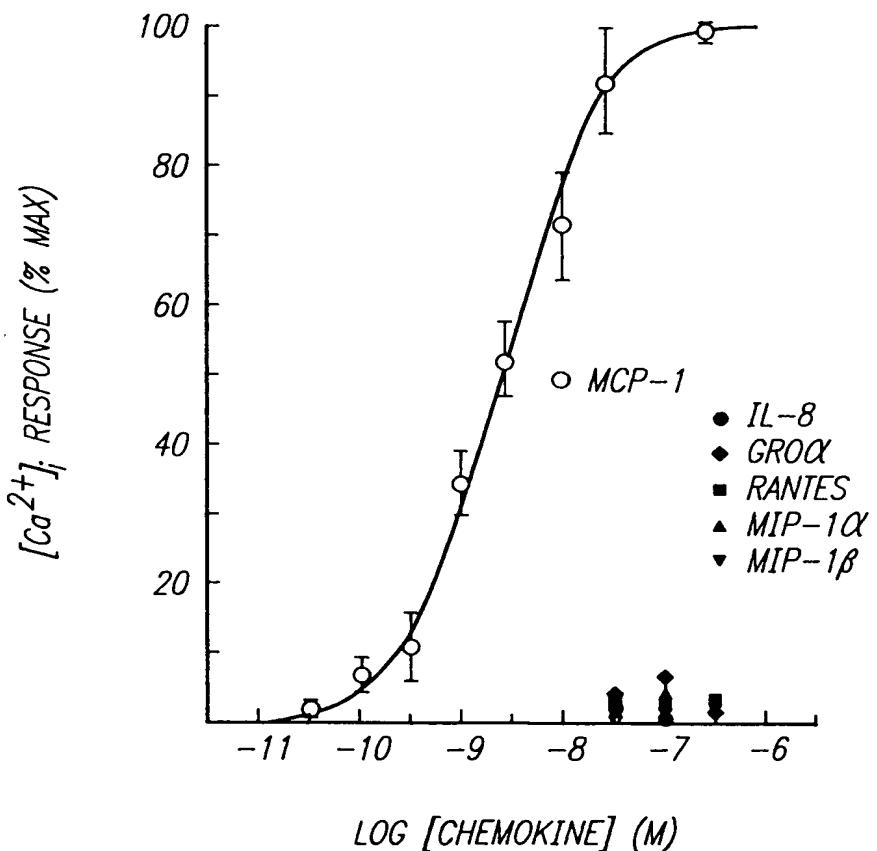


FIG. 8C

